Innovatus Technologies
Implementing Ideas...

SET 10 Batch ID -2018/2

(Core Java - For Loop)

1. Write a program to get the following output

```
1
2 3
4 5 6
7 8 9 10
11 12 13 14 15
```

2. Write a program to get the following output

```
1
33
555
7777
99999
```

3. Write a program to get the following output

```
2
44
666
8888
10101010
```

4. Write a program to get the following output

```
*       *
 *     *
  *   *
   *
  *   *
 *     *
*       *
```

5. Write a program to get the following output

```
*****
*   *
*   *
*   *
*****
```

6. Write a program to get the following output

```
      1
     232
    34543
   4567654
  567898765
```

7. Write a program to get the following output

```
1        1
12       21
123     321
1234   4321
123454321
```

8. Write a program to get the following output

```
543212345
 4321234
  32123
   212
    1
```

9. Write a program to find the sum following series

$$1 - 1/3 + 1/6 - 1/10 + 1/15 - \ldots\ldots.$$

10. Write a program to find the sum following series

$$1! + 2! + 3! + \ldots. + n!$$

11. Write a program to find the sum following series

$$1 - 1/2 + 1/3 - 1/4 + 1/5 - 1/6 + \ldots\ldots\ldots\ldots$$

12. Write a program to find the sum following series

$$1/2^2 + 1/4^2 + 1/8^2 + 1/16^2 + 1/32^2 + \ldots\ldots\ldots\ldots$$

13. Write a program to find the sum following series

$$1 + 1/2 + 1/3 + 1/5 + 1/7 + 1/11 + 1/13 + 1/17 + 1/19 \ldots\ldots.n$$

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